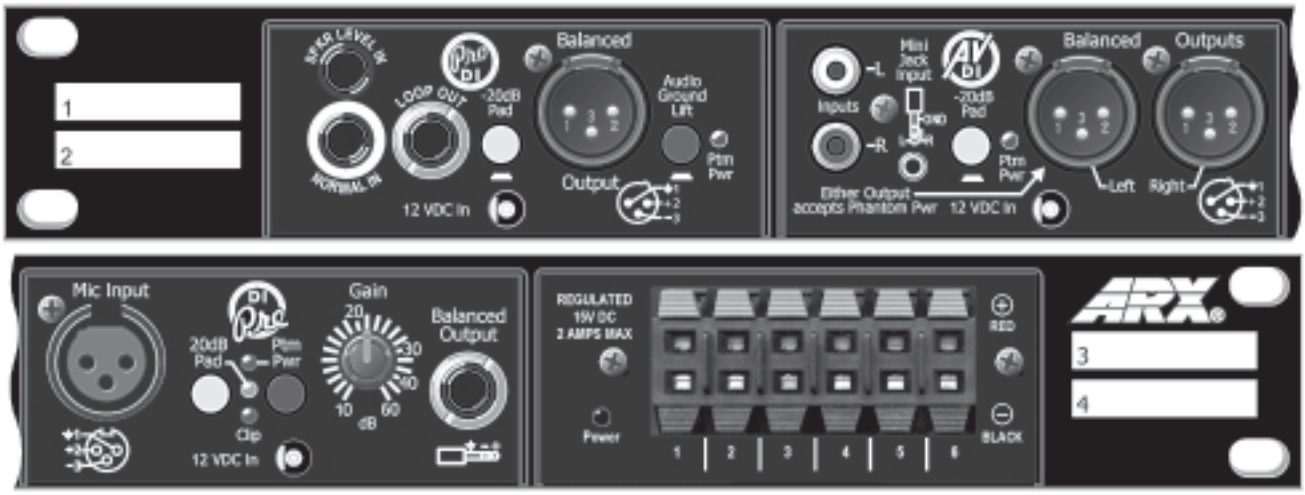
Audibox™

Precision Tools for Audio Professionals

A complete range of precision tools designed to perform essential professional audio functions in an ultra compact, flexible package.
'Little black boxes' for every audio toolbox!
Power options include Phantom Power as supplied from a mixing console, or 12V DC from any suitable external Power Supply. Multiple units can be powered from the Audibox High Density DC Power Supply.



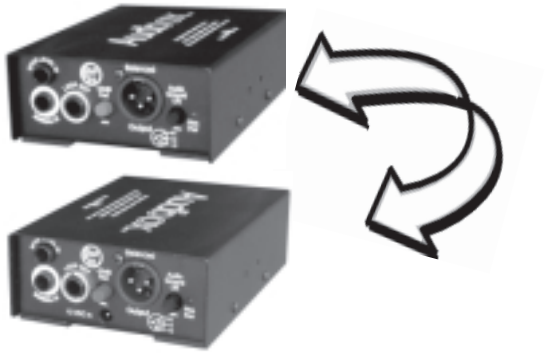
ARX
www.arx.com.au®

About the Audibox range

- **Available in standard Single channel or our unique DoubleHeader format where applicable. Need another channel? Simply turn the unit around!**
- **12 V DC Power option**
- **Phantom Power option for applicable products**
- **Superb 'High Density' precision design provides stunning audio quality**
- **Security options include Kensington-type computer keylock slot, plus bracket kit for under-table mounting**
- **Audibox multi-unit power supply available**
- **Rack Mount kit available for multiple units**

Our unique optional **'DoubleHeader'** format gives you twice the processing power in the same compact format!

Channel 1 - turn the unit around...



...and Channel 2 is on the other end!

Compact Design

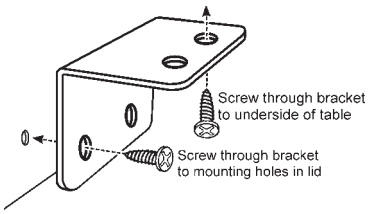
The compact size of the Audibox series means that four units can be mounted side by side in a 1RU rack mount tray. With totally passive devices like the ISO-Later and the ISO Splitter, four units can be rack mounted. In the case of externally powered units, then 3 units and the Audibox PSU can be racked. There is provision in the PSU to supply DC to a further 3 units which could be mounted in a second rack.

RMK-1 Rack Mounting Kit

Out-of-Sight Mounting

A steel mounting bracket kit is available to attach individual Audibox units to out-of-sight surfaces, eg. underneath desk or table. The kit contains self tapping screws to mount the brackets to the sides of the unit, and also to the table, desk or bench.

1 bracket per side, 4 screws per side (extra screws omitted from diagram for clarity)

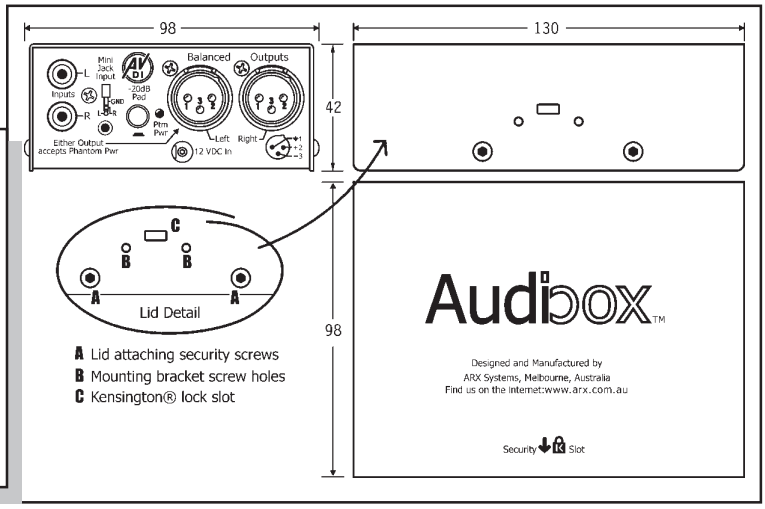


TMK-1 Table Mounting Kit

Precision engineering

The Audibox range share a common footprint and manufacturing platform. Offset lid screws enable close side-by-side mounting of multiple units.

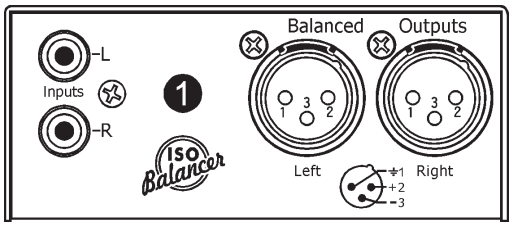
Each unit's dimensions are 98mm W x 130mm D x 42mm H. Allowance should be made for at least 50mm clearance at the front to allow for connectors, and the same at the rear if it is a DoubleHeader dual channel unit.



All models in the Audibox range feature the same heavy duty all-steel chassis finished in attractive matt textured powdercoat, with hardwearing epoxy screen printing and large slip resistant rubber foot pads.

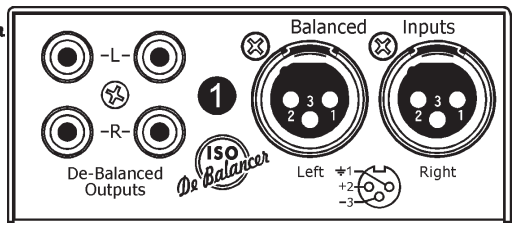
By their very nature these units are compact and portable; to protect your investment we've added numerous security features including a slot for computer lock, and the option of a permanent table mounting kit.

A rack mount kit is also available to rack up to 3 units plus power supply in 1 RU



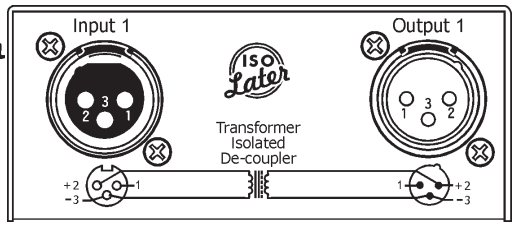
Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter

Available in Dual Channel format only



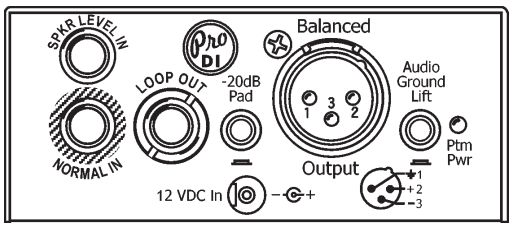
Dual channel Unbalanced to Balanced Low Impedance transformer isolated converter

Available in Dual Channel format only



A transformer isolated de-coupler, for removing Ground loops and for use in applications where complete Galvanic isolation is required.

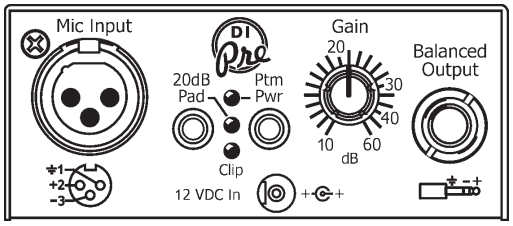
Available in Single Channel or Double Header format



Ultra compact Active Direct box, with normal High Impedance input as well as a separate speaker level input for connection to instrument amplifiers.

Other features include –20dB Pad and Audio Ground Lift switches, plus Phantom or 12V DC power options.

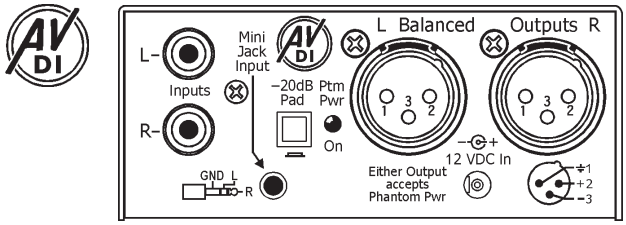
Available in Single Channel or Double Header format



Ultra compact Microphone Pre amp with XLR input, balanced jack output and 10 to 60dB Gain control.

Other features include –20dB Pad switch, Clip LED and Phantom Power switch, plus 12V DC power connector.

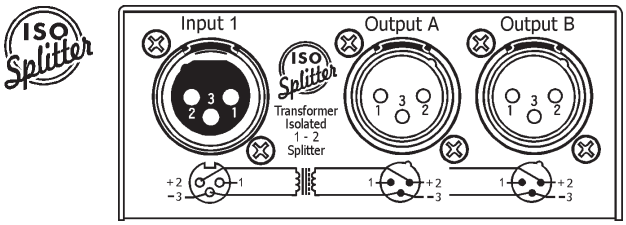
Available in Single Channel or Double Header format



Stereo AudioVisual Active Direct box, with dual RCA or stereo mini jack input and dual XLR outputs. Ideal for interfacing consumer audio (especially computer sound cards) with professional systems.

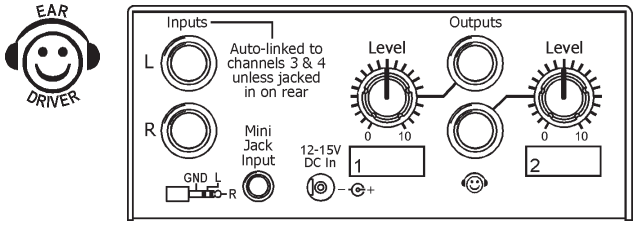
Other features include full-time soft audio ground, –20dB Pad, plus Phantom or 12V DC power options.

Available in Dual Channel format only



A transformer isolated 1 input to 2 outputs splitter for splitting 1 input 2 ways in applications where complete Galvanic isolation is required.

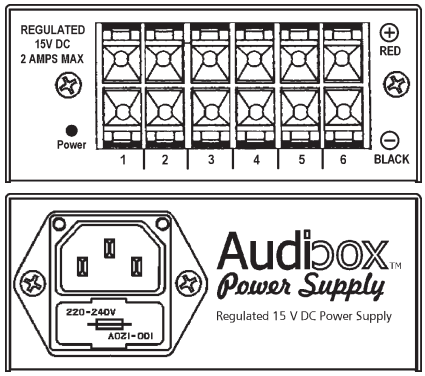
Available in Single Channel or Double Header format



Stereo inputs feed two channels of headphone level outputs. Individual Level controls plus 12V DC power connector.

Available in Double Header format only; Channels 1 and 2 are AutoLinked into Channels 3 and 4 unless other inputs are jacked into 3 and 4. A compact, flexible unit

Audibox™ Power Supply



Regulated 15 volt DC Power Supply, ideally suited to the Audiobox system.

110/120 or 220/240 V AC in, and six individual 15V DC outputs, with exernal AC fuse.

Rack mount kit available to rack up to 3 units plus power supply, or 4 individual units, in 1 RU

Audibox Preliminary Specifications

DI Pro; DI Pro 2

Max Input Level
+12 dB Phantom powered, +8 dB using 12 VDC Power Supply.
Input Impedance 1 Meg Ohm
Max Output Level (nominal)
+12 dB 10K Ohm load using Phantom power
+11 dB 600 Ohm load using 12 VDC Power Supply
Output Impedance 680 Ohms Balanced
Output Signal to Noise -100 dB unweighted, -104 dB A weighted
Dynamic Range 112 dB 10K Ohm load using 12 VDC Power Supply
Distortion 100 Hz 0.0025%, 1KHz 0.0026%, 10KHz 0.0033%
Frequency Response 20Hz to 20KHz, ± 0.2 dB
Gain through Unit 6dB (Normal input, Pad switch out)
Pad Switch -20 dB attenuation
Speaker Input
-40 dB attenuation, equivalent to 100:1 decrease in input level.
-60 dB attenuation available with Pad switch
Input Connectors Insulated jacks
Output Connector
3 pin male XLR. Wired Pin 1 Ground, Pin 2 + Hot, Pin 3 – Cold.
Audio Ground (Pin 1) lift switch fitted
Construction All-steel powdercoated chassis, fibreglass PCB

DI Pre; DI Pre 2

Mic Input Impedance 2 K Ohms Balanced
Phantom Power Voltage Switchable +48 V DC on XLR Pins 2 and 3
Input Gain +10 dB Minimum, variable to +60 dB Maximum
Pad Switch -20 dB attenuation
Overload Indicator Measured at all Gain points throughout the circuitry
Output Noise -90 dB Unweighted, -97 dB 'A' weighted
(Measured with Gain nominal 20 dB,)
Frequency Response 20 - 20 KHz ± 0.25 dB
Distortion 100 Hz 0.0085%, 1 KHz 0.008%, 10 KHz 0.0083%
(Measured with Mic Gain @ 20 dB)
Input Connector Balanced 3 pin female XLR type Pin 1 Audio Ground, Pin 2 + Hot, Pin 3 – Cold
Output Connector Insulated Tip Ring Sleeve balanced jack
Construction All-steel powdercoated chassis, fibreglass PCB

ISO Later; ISO Later 2

Input Impedance	600 Ohms
Output Impedance	600 Ohms
Frequency Response	20Hz - 20 KHz ± 0.1dB
Maximum Output Level	+ 24dBm
THD at Max Output	0.2% 30 Hz - 20KHz
Insertion Loss	0.75dB @ 1 KHz (600 Ohm source & load)
Input Connector	3 pin female XLR wired Pin 2 + Hot, Pin 3 – Cold
Output Connector	3 pin male XLR wired Pin 2 + Hot, Pin 3 – Cold. Audio grounds are unconnected
Construction	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

Ear Driver

Inputs 44 K Ohms Balanced, 22 K Ohms Unbalanced
Stereo Headphone Output 1 watt @ 8 ohms max.
Frequency Response 20 Hz - 20 KHz ± .5dB
Distortion Max .1% prior to clipping.
Input Connectors Insulated Left and Right jacks.
Inserting 1/4" jack into Left Input only will mono all Outputs
Channel A Inputs will loop through to all outputs unless Input jacks are inserted into Channels 3 and 4
Output Connectors Insulated Tip-Ring-Sleeve jack.
Wired Tip - Left out, Ring - Right out, Sleeve - Ground / Earth
Construction All-steel powdercoated chassis, fibreglass PCB

AV DI

Input Impedance
47K Ohms unbalanced, on both RCA connectors and Mini Jack
Max Input Level
Line +8 dB with Pad switch Out, + 28dB with Pad switch In
Gain through Unit 6dB, Pad switch Out.
Output Noise
-90 dB Unweighted, -97 dB 'A' weighted, inputs loaded
Frequency Response 20 - 20 KHz ± 0.3 dB
Input Connectors
Left and Right RCA (phono) connectors, plus Tip-Ring-Sleeve Mini Jack
Output Connectors
Dual 3 pin XLR wired Pin 1 Ground, Pin 2 + Hot, Pin 3 – Cold.
Construction All-steel powdercoated chassis, fibreglass PCB

ISO Balancer 2

Input Impedance	10K Ohms Balanced
Output Impedance	10K Ohms Unbalanced
Input Level (max)	+12dB
Frequency Response	20Hz - 20 KHz ± 0.5dB
THD at Max Output	0.2% 0dB 1 KHz, 30 Hz - 20KHz
Insertion Loss	0.75dB @ 1 KHz (600 Ohm source)
Output Connectors	3 pin male XLR, wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. Chassis Ground to XLR Pin 1
Input Connectors	Stereo RCA connectors
Construction	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

ISO De-Balancer 2

Input Impedance	10K Ohms Balanced
Output Impedance	10K Ohms Unbalanced
Input Level (max)	+12dB
Frequency Response	20Hz - 20 KHz ± 0.5dB
THD at Max Output	0.2% 30 Hz - 20KHz
Insertion Loss	0.75dB @ 1 KHz (600 Ohm source)
Input Connector	3 pin female XLR, wired Pin 1 Ground, Pin 2 + Hot, Pin 3 - Cold. Chassis Ground to XLR Pin 1
Output Connectors	Dual stereo RCA connectors
Construction	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

ISO Splitter; ISO Splitter 2

Input Impedance	300 Ohms
Output Impedance	2 secondaries @ 600 Ohms each
Frequency Response	20Hz - 20 KHz ± 0.1dB
Maximum Output Level	+ 20dBm
THD at Max Output	0.2% 30 Hz - 20KHz @ 20dBm
Insertion Loss	1.6dB @ 1 KHz (600 Ohm source & load)
Input Connector	3 pin female XLR wired Pin 2 + Hot, Pin 3 – Cold
Output Connectors	3 pin male XLR wired Pin 2 + Hot, Pin 3 – Cold. Audio grounds are unconnected
Construction	All-steel chassis, fibreglass PCB, ultra low noise audio transformer

AB PSU Power Supply

AC Input Connector	Removable 3 pin IEC connector
Input Voltage Selection	110/120 V or 220/240 VAC, 50-60 Hz, Voltage externally variable
AC Fuse	External 500mA
Output Voltage	Fully Regulated 15V DC @ 2 amp maximum output. Short circuit protected, automatic reset.
Output Connectors	6 x + and – spring terminals
Construction	All-steel powdercoated chassis, fibreglass PCB

ARX www.arx.com.au ®

Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

CE N1819

Latest updates available at: www.arx.com.au/audibox.htm

Designed and Manufactured by:
ARX Systems Pty Ltd; PO Box 15, Moorabbin, Victoria 3189, Australia
Phone: 03 9555 7859 Fax: 03 9555 6747 International Fax +61 3 9555 6747
Email: info@arx.com.au Internet: www.arx.com.au